

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
STANDARD ANNULAR PRESSURE TEST

Operator	HRF Expl. and Prod	State Permit Number	52079
Address		EPA Permit Number	41-007-2D-0053
		Date of Test	11/14/2013
Well Name & Number	TLC (Bear Swamp) DZ-8	Well Type	2D

Quarter	Quarter	Quarter	Section	Township	Range	Township Name	County	State
NE	SE	SW	8	29N	3E	OSSINEKE	Alpena	MI
GPS file number			Latitude		Longitude		Elevation	
			44.91845		83.86026			

Company Representative	Brad Mosser	Field Inspector	Sam H. Williams
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GAUGE CERTIFICATION

Type Pressure Gauge Wika } 4 inch face 600 psi full scale 5 psi increments
 New Gauge? Yes ☒ No ☐ If no, date of calibration _____ Calibration certification submitted? Yes ☐ No ☒

TEST RESULTS

Time	0	15	30				
Annulus	445	445	445				
Tubing	VAC						

WELL STATUS

5 Year ☐ TD# _____
 2 Year TA ☐ TD# _____
 Rework after failure ☒ TD# 14-029
 New Permit ☐ TD# _____
 Enforcement Action ☐ TD# _____
 Annual Class 1 ☐ TD# _____

WELL CONFIGURATION

Casing Size 5 1/2
 Tubing Size 2 7/8
 Packer Type ARROW SL PENSION
 Packer set @ 1373
 Fluid Return (gal) 2 1/2 445 335

Test Pressures: Max. Allowable Pressure Change: Initial test pressure x .03 13.4 psi
 Test Pressure change 8 psi

Test Passed ☒ Test Failed ☐ : If failed test, well must shut in, no injection can occur, and USEPA must be contacted within 24 hours. Corrective action needs to occur, the well retested, and written authorization received before injection can recommence.

COMMENT:

RECEIVED

DEC 04 2013

Signature of Company Representative	Date
<u>Bradley R. Mosser</u>	<u>10/14/2013</u>
Signature of UIC Field Inspector	Date
<u>Sam H. Williams</u>	<u>Nov. 14, 2013</u>